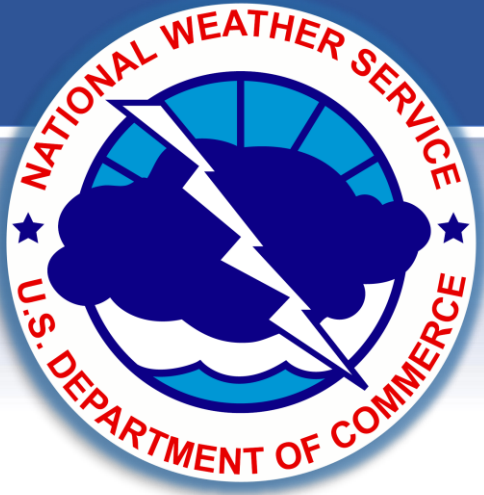


Decision Support Briefing

Southeast River Forecast Center



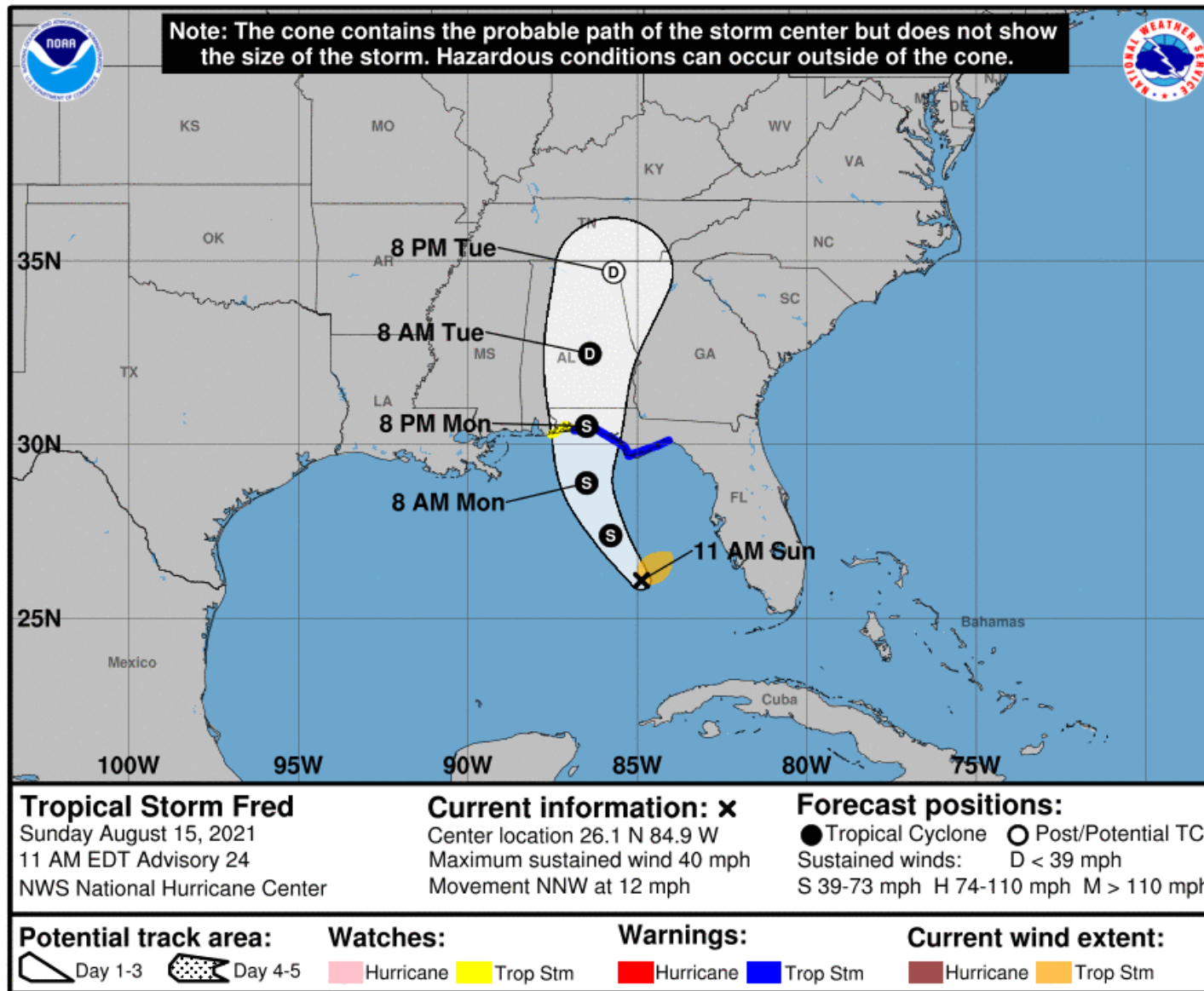
Decision Support Briefing Tropical Storm Fred Tropical Storm Grace



Issued: 11:03 AM Sunday, August 15, 2021



- **Fred has strengthened into a tropical storm and is moving north. Landfall is expected sometime Monday night.**
- **The Florida panhandle and south Alabama have the highest risk of flooding as Fred moves through the area tomorrow.**
- **SERFC is watching Tropical Storm Grace in the Atlantic...it will affect Puerto Rico today and could impact Florida and the southeast US later this week.**
- **River forecasts include only 48 hours of future rainfall.**



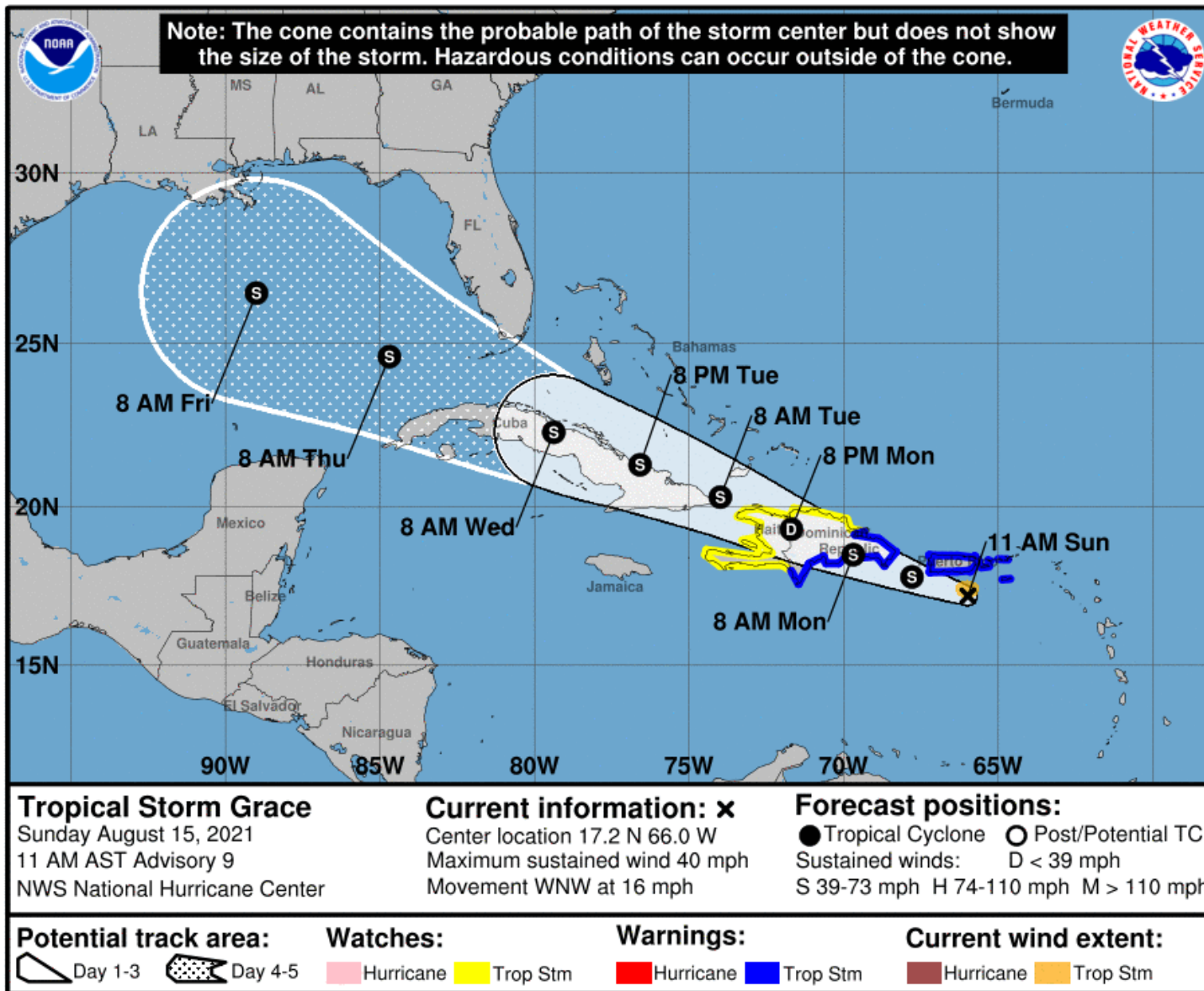
Fred has regained strength and is now a tropical storm.

Rain from this storm will arrive on the Alabama/N. Florida/ Mississippi gulf coast on Monday.

Tropical Storm Grace

Southeast River Forecast Center

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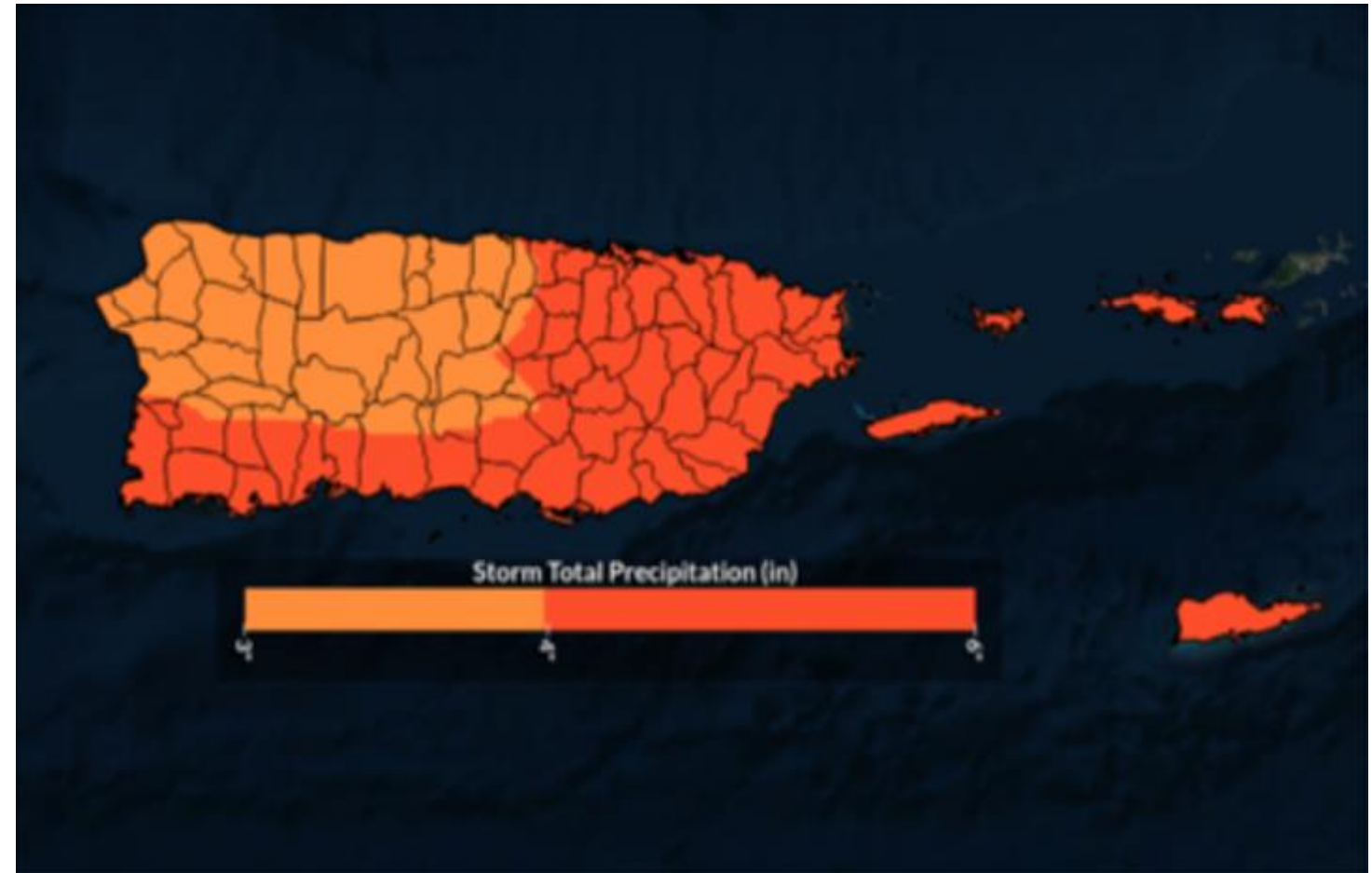


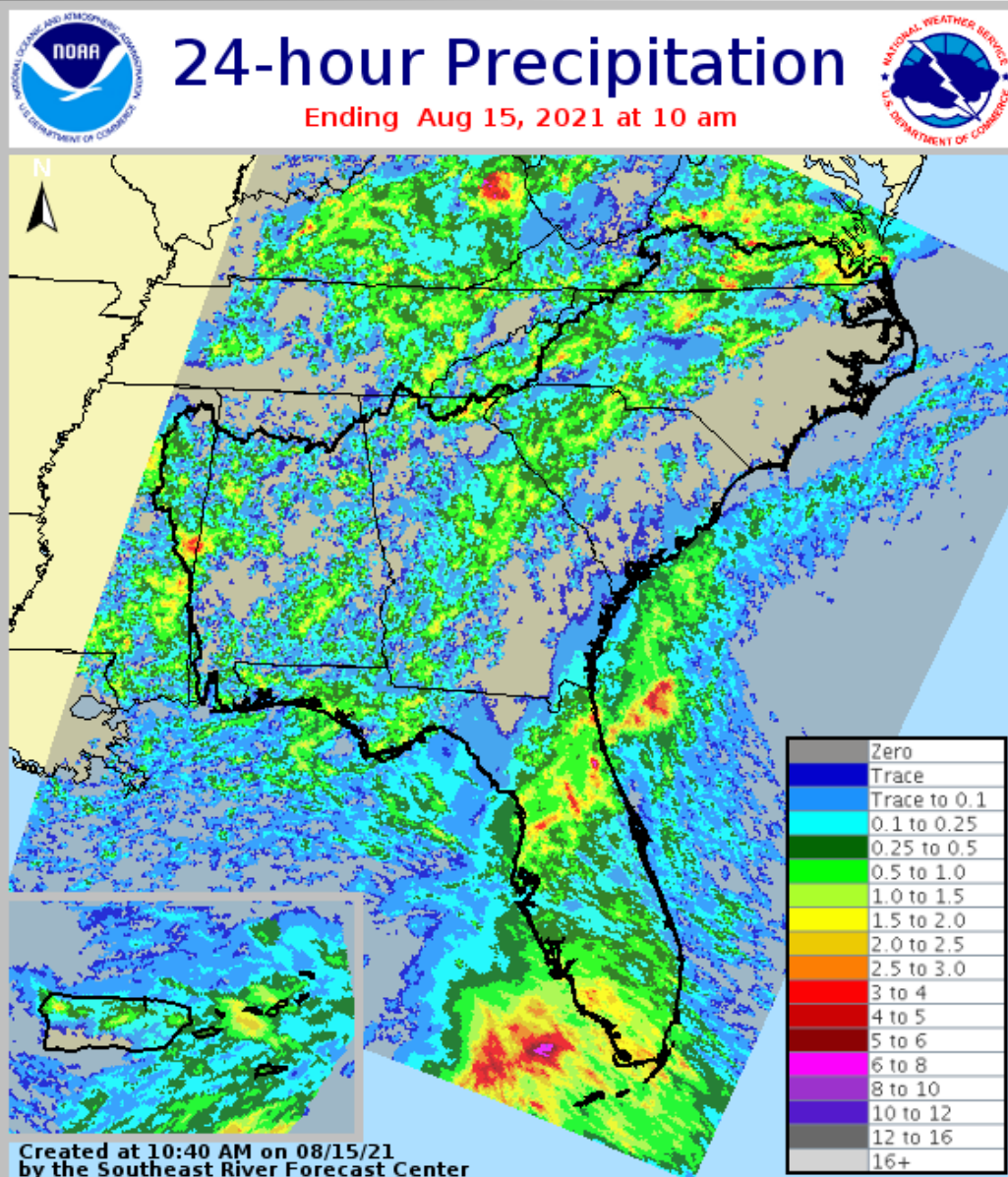
Grace is following a similar path as Fred took earlier this week.

Impacts to Puerto Rico will occur today with potential impacts on south Florida by Thursday.



- **Timing:** Today through Monday evening
- **Rainfall:**
 - PR : 3 - 6 inches with isolated higher amounts of up to 8 inches.
 - USVI: 3 - 6 inches.





Scattered heavy rain ahead of Fred across the southeast US.

The graphic here shows the past 24 hours.

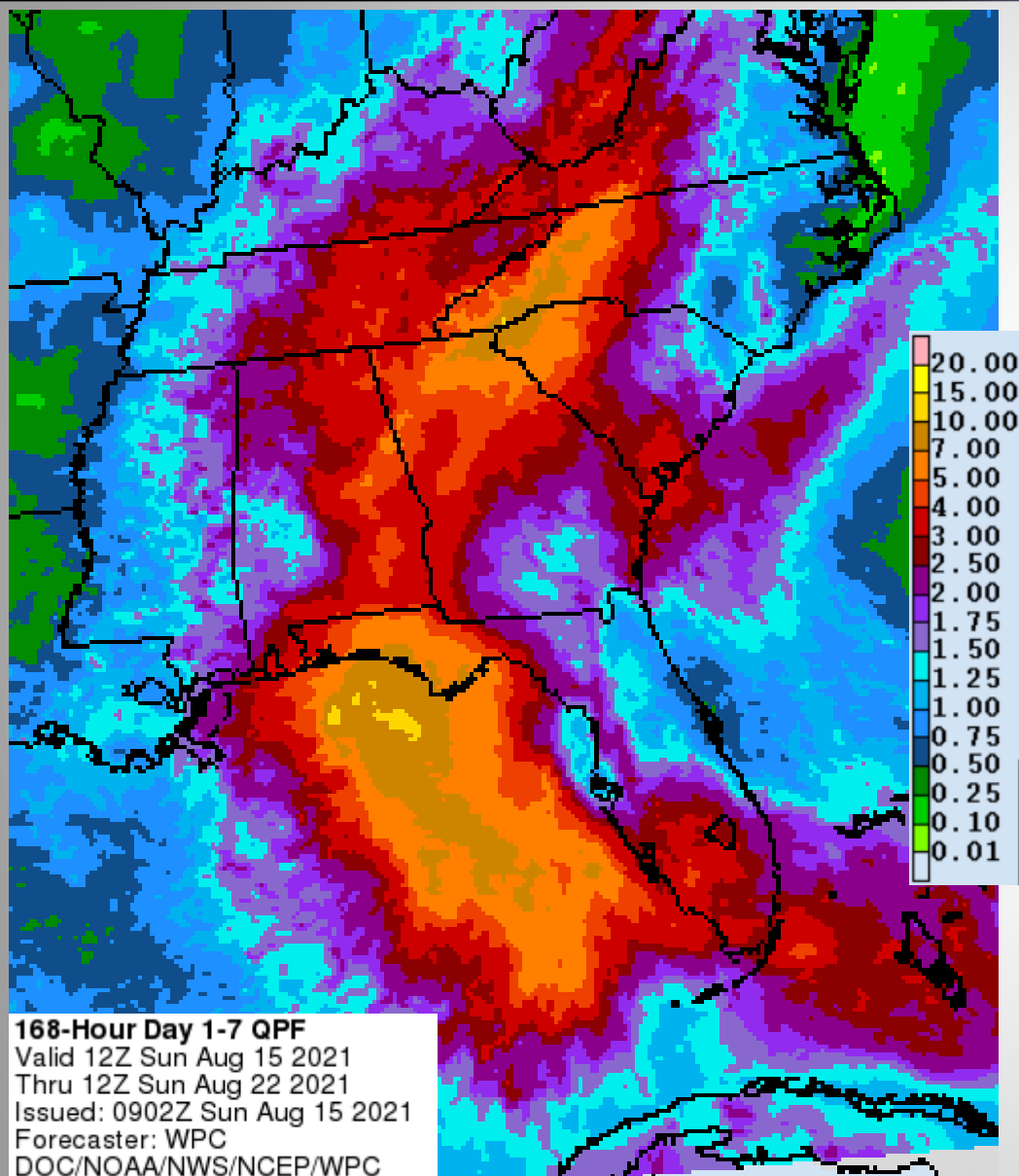
Continued scattered showers and storms are forecast each day ahead of Fred and Grace.

7-Day Precipitation Forecast

8 am Friday 8/14 through 8 am Friday 8/21

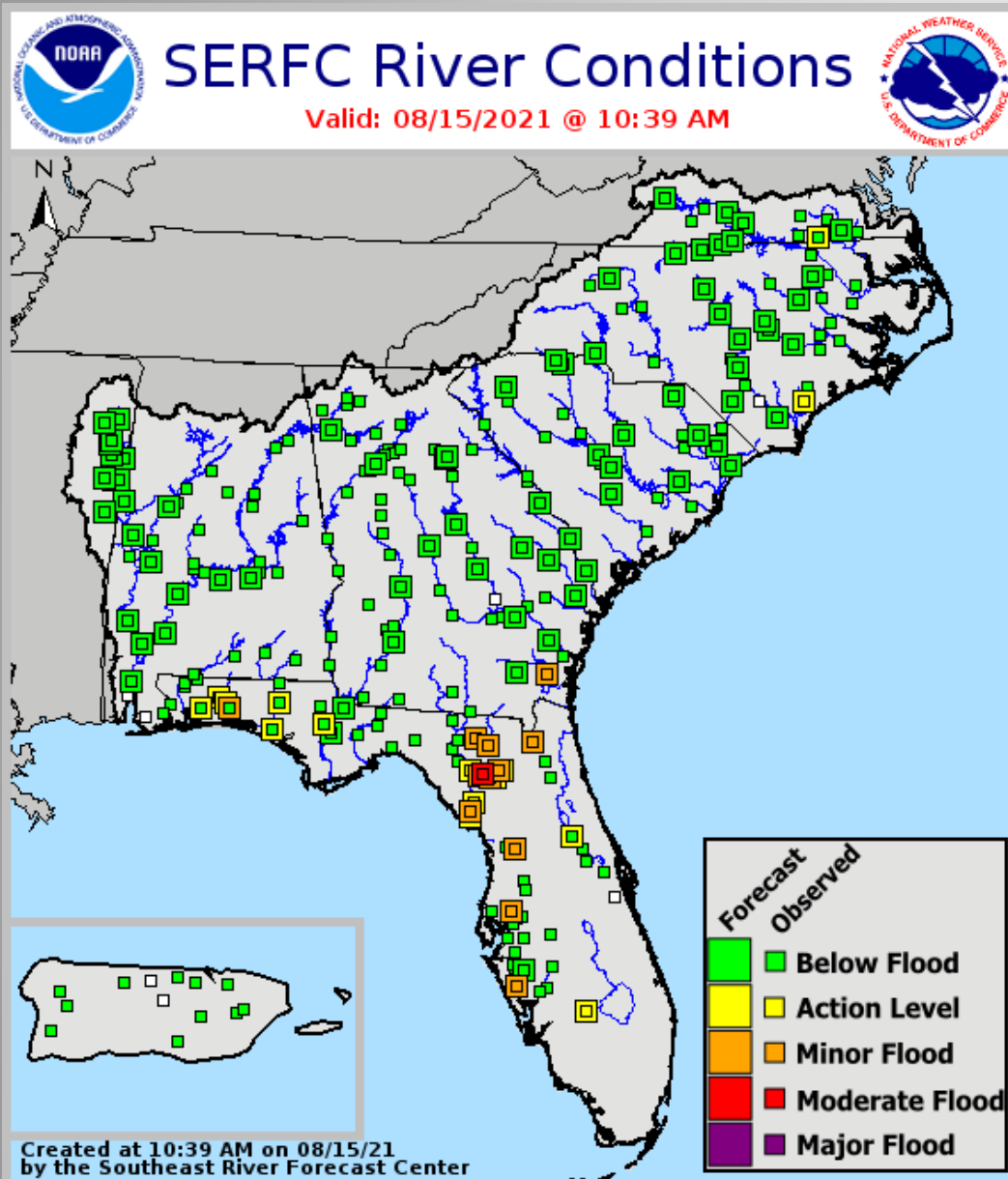
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An active week with Fred producing rain in the Florida panhandle and south Alabama before moving inland and dissipating in northern Alabama by Wednesday. Heavy rain is expected along and ahead of the path of Fred.

Grace will pass by Puerto Rico today and then move through the Caribbean. The current path has it passing south of Florida but still possibly bringing heavy rain to south Florida as it does.



Minor to moderate flooding continues along parts of the Suwannee and Santa Fe rivers. Many rivers will remain high through the week.

Additional rainfall from Fred could enhance flooding conditions, causing higher or new crests or slower recessions on rivers.

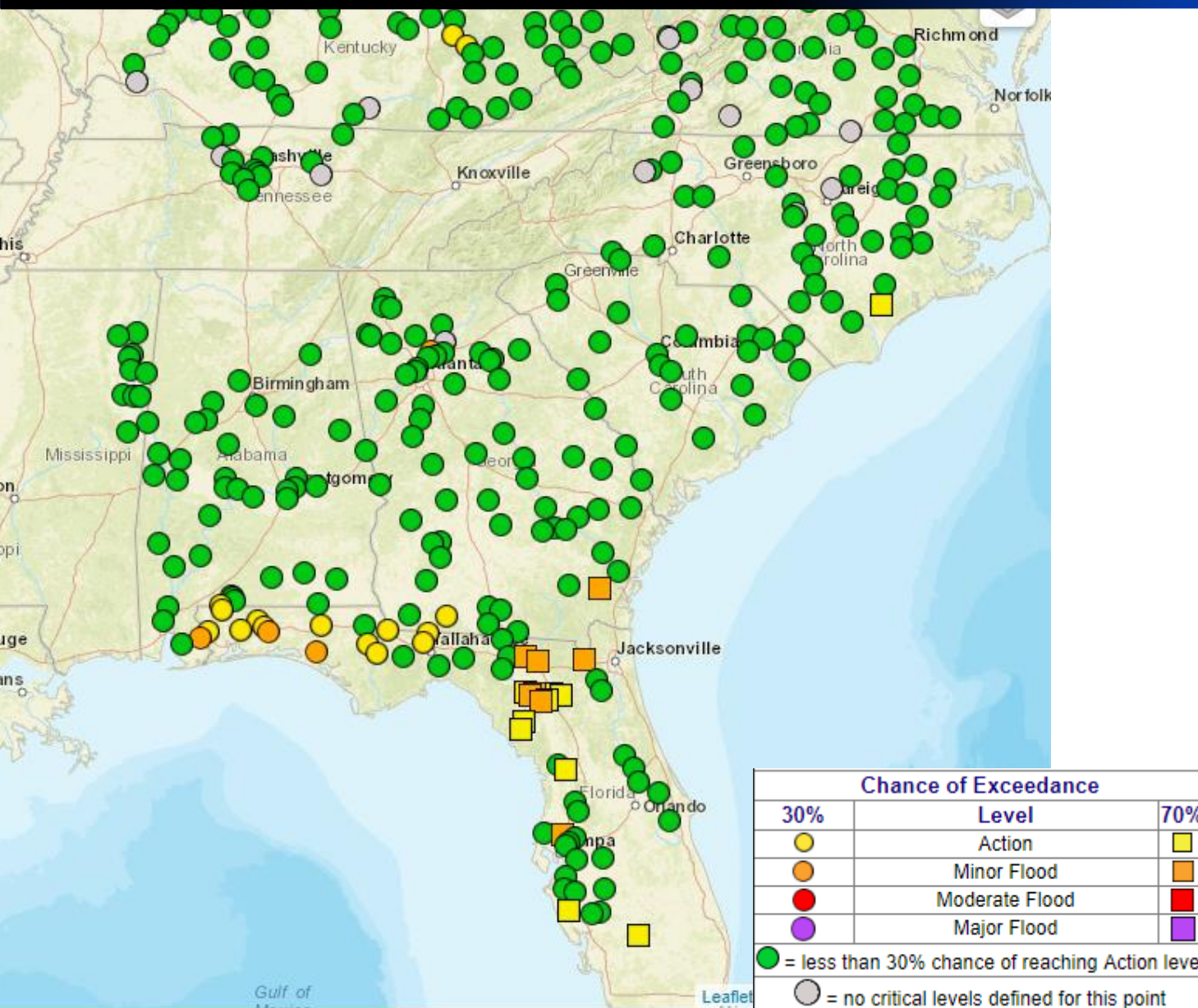
SERFC is using 48 hours of QPF (rainfall forecast) in the forecasts depicted here.

Ensemble Forecasts (MMEFS)

MMEFS

Southeast River Forecast Center

Issued August 15, 2021 11:03 AM ET



The Meteorological Model Ensemble Forecast System (MMEFS), to the left, is using the NAEFS model and addresses uncertainty in the longer lead rainfall forecast that helps to provide a confidence level for potential flooding. The NAEFS runs in our model every 12 hours.

Mostly minor flooding is possible as Fred tracks north through the southeast US

When looking at these, know that this is helpful in describing the uncertainty outside the 48-hour QPF window we use for the river forecasts.

To take a closer look. Here is the link to more detailed information:

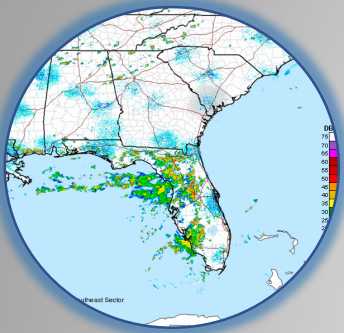
<https://www.weather.gov/erh/mmeefs>



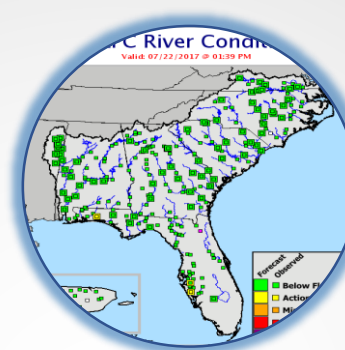
- SERFC is currently in normal operations but will add staffing this evening and may extend hours if necessary.. Normal operating hours are from 6 am to 10 pm EDT. Please contact us if you have any questions or concerns.
- Briefings will be issued until further notice.

Latest River Stages and Forecasts
are available...click here!

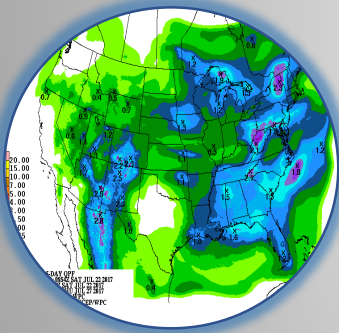
Please send all operational correspondence to
sr-alr.rivers@noaa.gov or call the office directly.



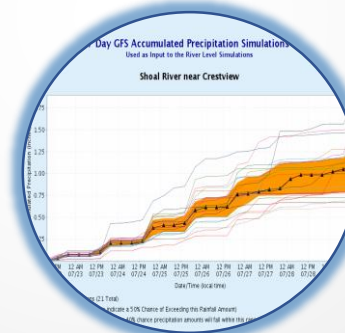
[Latest Radar](#)



[SERFC Quick Brief](#)



[Latest Forecast Rainfall](#)



[MMEFS – Ensemble River Forecasts](#)



The Decision Support Briefing will continue through the weekend.

- *These slides are intended for your use. Please feel free to share these with others. If you have any questions please email sr-alr.rivers@noaa.gov or contact your local NWS Weather Forecast Office.*
- *Remember: SERFC briefings cover **freshwater flooding**. For information on coastal and tidal flooding, flash floods, winds, and severe weather risks, please contact your local Weather Forecast Office.*